

CLEARWATER FISH HATCHERY ANNUAL OPERATIONS REPORT

OCTOBER 1, 2011 – SEPTEMBER 30, 2012



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**LOWER SNAKE RIVER
COMPENSATION PLAN
*Hatchery Program***

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INTRODUCTION

Location

Clearwater Fish Hatchery (CFH) is located on the North Fork of the Clearwater River, 1.5 miles downstream from Dworshak Dam, 72.5 miles upstream from Lower Granite Dam, and 504 miles upstream from the mouth of the Columbia River.

Red River satellite facility is located 114 miles upstream from Clearwater Fish Hatchery and 15 miles east of Elk City, Idaho. Red River is 186 miles upstream from Lower Granite Dam and 618 miles from the mouth of the Columbia River.

Crooked River satellite facility is located 20 miles downstream of Red River. The trap is located one-half mile upstream of the mouth of Crooked River, a tributary of the South Fork of the Clearwater River. The facility is located 100 mile upstream from CFH. The juvenile rearing ponds are ten miles upstream from the Crooked River adult trap. Crooked River is 172.5 miles upstream from Lower Granite Dam and 604 miles upstream from the mouth of the Columbia River.

Powell satellite facility is located 120 miles east of the CFH at the headwaters of the Lochsa River. Missoula, Montana, 45 miles east is the closest town. Powell is 192.5 miles upstream from Lower Granite Dam and 624 miles upstream from the mouth of the Columbia River.

*See Appendix 1 for property details.

Mitigation Goals

Lower Snake River Compensation Plan:

The annual goal of CFH and satellite facilities is to return 12,000 adult salmon and 14,000 adult steelhead over Lower Granite Dam.

Idaho Department of Fish and game Objectives:

The objectives of Idaho Department of Fish and Game (IDFG) for the CFH are to reestablish historic fish runs into the upper Clearwater River tributaries, to enhance the wild spawning population, and to increase sport and tribal fishing opportunities.

SPRING CHINOOK SALMON

South Fork Brood Year 2012

(Red River / Crooked River)

In 1997, Red River and Crooked River stock Chinook were combined to make the South Fork stock and this has been continued every year including 2012 due to the straying of Chinook between the two drainages.

The Red River trap was put into operation May 24, 2012 for Chinook trapping. The first Chinook was trapped on June 14, 2012 and the last on September 3, 2012. The Red River trap was run a total of 102 days. A total of 923 fish were trapped of which 87 were wild/natural and 836 were hatchery origin.

The Crooked River trap was put into operation March 23, 2012 for steelhead trapping. It was left in operation for Chinook trapping, and the first Chinook was trapped on June 14, 2012 and the last on September 2, 2012. The Crooked River trap was operated 165 days. A total of 97 fish were trapped of which 40 were wild/natural and 57 hatchery origin.

South Fork (Red River and Crooked River, 1020 fish trapped)

South Fork Clearwater Spring Chinook age class breakdown Red River and Crooked River (1,020 fish trapped, 893 hatchery origin)

Age Classes	Females	Males	Unknown
3 years	15	69	1
4 years	529	334	3
5 years	27	41	1
Total	571	444	5

*See Appendix A for disposition details.

A total of 461 females were spawned between August 7 and September 6, 2012 for a total of 10 egg takes. Eggs from six females were culled at spawning. During incubation, eggs from a total of 97 females were culled due to high BKD levels above a 0.25 BKD rating and zero were culled for bad eggs. Three hundred sixty four females were kept for CFH production.

A total of 1,341,614 green eggs taken for South Fork stock egg allocations yielded 1,283,914 eyed eggs for an eye-up average of 95.7%.

*See Appendix B1 for egg take breakdown.

A total of 1020 fish were trapped of which 127 were wild/natural and 893 were hatchery.

Powell Brood Year 2012

For the 16th year, the IDFG's Fishery Research trap on Crooked Fork Creek was operated in conjunction with our Powell trap on Walton Creek to collect hatchery fish in the upper Lochsa basin. The Walton Creek weir was installed on May 29, 2012 and taken out of operation on September 15, 2012. The Powell trap was operated 110 days. The first Chinook was trapped on June 14, 2012 and the last Chinook was trapped on September 10, 2012.

A total of 818 fish were trapped of which 23 were wild/natural and 795 were hatchery origin.

The Crooked Fork trap was in operation between July 9, 2012 and September 3, 2012. A total of 12 fish were trapped at Crooked Fork Creek. A total of 12 ad-clipped fish were transported to Powell holding pond and used in hatchery spawning.

A total of 829 fish were trapped in the Powell/Crooked Fork traps of which 23 were wild/natural origin and 806 were hatchery origin.

Powell and Crooked Fork (829 fish trapped)

Powell and Crooked Fork spring Chinook age class breakdown (829 fish trapped, 806 hatchery origin)

Age Classes	Females	Males	Unknown
3 years	5	16	0
4 years	447	231	2
5 years	48	79	1
Total	500	326	3

*See Appendix A for disposition details.

A total of 414 females were spawned between August 6, 2012 and September 4, 2012 for a total of 9 egg-takes. Zero females were culled at spawning, 22 in incubation for BKD, and zero for bad eggs. Eggs from 390 females were kept for hatchery production.

A total of 1,118,799 green eggs taken for Powell stock egg allocation yielded 1,025,757 eyed eggs with an overall eye-up average of 91.7%.

*See Appendix B2.

A total of 2,460,413 green eggs from Powell and South Fork stock for CFH production yielded 2,309,671 eyed spring Chinook eggs with an overall eye-up average of 93.7%.

SUMMER CHINOOK SALMON

South Fork Summer Chinook Trapping

The first summer Chinook trapped at Crooked River was on July 5, 2012 and the last on August 1, 2012. A total of 11 summer Chinook were trapped of which all 11 were hatchery origin fish with CWT and no AD clip. Zero wild/natural fish were caught. All 11 fish were one-ocean males from the spring release of 204,061 smolts at Crooked River.

No spawning occurred with summer Chinook trapped at Crooked River in 2012.

TRANSFER OF LIVE ADULT AND JACKS TO NEZ PERCE TRIBAL FISH HATCHERY (NPTH) AND FOOD BANKS

A total of 25 spring Chinook and 11 summer Chinook were given to food banks. No adults were out planted or transferred to NPTH.

CHINOOK EGGS TRANSFERRED TO OTHER HATCHERIES

On August 6, 2012 and August 9, 2012, CFH transferred green eggs from 105 females to Dworshak National Fish Hatchery (DNFH) to fill the Selway parr program. This was the first year that DNFH will raise the Selway parr release group.

CHINOOK EGGS TRANSFERRED FROM OTHER HATCHERIES.

A total of 585,784 green summer Chinook eggs from 136 females were received from McCall Hatchery yielding 535,631 eyed eggs for a 91.4% eye-up. Two females were culled for high BKD, three for bad eggs and zero to lower BKD levels. A total of 131 were kept for production.

CFH received eggs from a total of 87 females from Kooskia stock held at DNFH. A total of 17 females were culled for (+) IHN results and one was culled because of bad eggs at DNFH. A total of 69 females were kept for production and they yielded 240,649 green eggs and after picking yielded 222,788 eyed eggs for a 92.7% eye up.

CFH received eggs from a total of 109 females from DNFH to backfill the South Fork Clearwater release group. All (+) IHN and BKD culling occurred at DNFH before the eggs were transferred to CFH. Rapid River Hatchery crew salt floated the eggs prior to CFH receiving them. All of the 109 females were kept for production and yielded 366,964 eyed eggs.

DISTRIBUTION

Chinook

Distribution of acclimated BY10 spring Chinook smolts by CFH personnel began March 21, 2012 with the transport of smolts to Lower Selway direct release site and finished April 5, 2012 with transport of South Fork stock to the Red River Facility. Powell smolts were acclimated approximately 5 hours and released each day on March 27-28, 2012. Direct release plants occurred at Crooked River introducing the summer Chinook run at Crooked River. This is the second release of summer Chinook into the Clearwater basin. The release occurred on March 26, 2012 and consisted of 206,317 summer Chinook. Transportation of CFH smolts to the Lower Selway River by CFH staff began on March 21, 2012 and finished on March 22, 2012. Smolts were transported to Red River between March 28, 2012 thru April 5, 2012 into the acclimation pond and held 5 hours to sunset and released. No overnight acclimation was attempted due to worries of extreme ice conditions at the acclimation pond. A total of 2,387,106 smolts (144,046 pounds) were transported to and released from CFH. All of these fish were marked.

*See Appendix G for detailed release information by release site.

*See Appendices C, E, and H for rearing cost.

Summer time releases of BY11 Chinook occurred at one release site. The parr (340,020 smolts: 4,001 lbs.) were released at McGruder Corridor of Selway River. These fish were reared at CFH and transported by NPTH personnel. No pre-smolts were released at Red River, Upper Crooked River, or Powell acclimation ponds.

*See Appendix G for detailed release information by release site.

TRANSFER TO OTHER STATIONS

BY11 pre-smolts were transferred to NPTH on August 16, 2012 (212,256 smolts: 3,267 lbs.) for final rearing and release in spring of 2013.

STEELHEAD TROUT

Crooked River Trapping

Crooked River trap was put into operation to trap steelhead March 23, 2012. The first fish was trapped on April 12, 2012 and the last on May 23, 2012. A total of 43 fish were trapped of which three were hatchery males, 37 were wild/natural males, three were wild/natural females and zero were hatchery females. All wild/natural fish were released above the weir, and all hatchery fish were released below the weir.

Red River Trapping

Red River trap was installed but it was not operated during 2012 for steelhead trapping due to the low number of fish returning to the trap. High water flows pressed the weir down and allowed natural steelhead to pass above. No steelhead were trapped at the Red River facility in 2012.

Steelhead eggs received from other stations Brood Year 2012

A total of 820,675 BY12 green eggs were received from DNFH for rearing to full term smolts at the CFH. This was the eighth year DNFH was unable to shock and pick CFH steelhead eggs before shipping them to CFH. DNFH incubated the eggs to eye-up. CFH staff shocked them at DNFH, transported them to CFH incubation room, and picked them the next day. From these green eggs 726,800 eyed eggs were produced. Eye-up percentage was 88.5%. There were 606,432 swim-up fry that were ponded for CFH production. These fish will be released in the spring of 2013. CFH also received approximately 1,167,247 green eggs for early incubation, egg picking and enumeration for Magic Valley Fish Hatchery (MVFH). From these green eggs 1,039,828 eyed eggs were produced for MVFH. Eye-up percentage was 89.13%.

Additionally, CFH also received approximately 182,035 green eggs for surplus for Magic Valley Fish Hatchery (MVFH). The eggs were incubated, picked and enumerated at CFH along with the rest of the MVFH eggs. The decision was made to keep these eggs for CFH Broodstock because MVFH could not accommodate them. From these green eggs 158,469 eyed eggs were produced. Eye-up percentage was 87.0%. There were 135,192 swim-up fry that were ponded for CFH production. These fish will be released in the spring of 2013.

A total of 1,002,710 green eggs from DNFH stock (both for CFH and excess Magic Valley) for CFH production yielded 885,269 eyed steelhead eggs with an overall eye-up average of 88.2%.

South Fork Clearwater River Localized Broodstock

This was the third year of the localized broodstock collection in the South Fork of the Clearwater River. Hatchery and regional staff began soliciting anglers to donate their fish to the program on February 29, 2012. They continued for a total of 5 days. A total of 108 females and 89 males were donated by anglers, all of which were of hatchery origin.

There were 88 females spawned yielding 505,968 green eggs. Eye up percentage was 90.07% and eyed eggs were 455,718. Swim up fry ponded for CFH production was 371,992.

DISTRIBUTION

Steelhead

A total of 724,036 BY11 North Fork steelhead smolts were transported to three release sites from CFH. See Appendix F for release details. CFH staff, two Idaho Fish and Game transportation operators, and nine hatchery personnel with CDL's transported a total of 160,683 pounds of steelhead smolts. Some of the fish released at Red River and Crooked River had no external marks.

*See Appendices D, E, and H for rearing cost.

Rainbow

CFH staff released rainbow trout throughout the Clearwater region. CFH staff released 110,312 catchable size rainbows (45,735 pounds) March through August. These catchable rainbows were all of Troutlodge triploid stock reared at Nampa and American Falls Hatcheries in Idaho. Lyon's Ferry Fish Hatchery in Washington also raised Spokane Strain rainbow trout for our resident rainbow out plant program. Rainbow trout were released into streams, lakes and ponds at 21 sites for a total of 71 plants.

A total of 23 trout, ranging from two to eight pounds, were recovered from the sediment basin and released throughout the year with the normal fish allocation.

Fish and Game license fees funded this project with cooperation from the U.S. Fish and Wildlife Service

CONSTRUCTION PROJECTS

- Built 12 x 4 mechanical room at residences 1-7 to house new HVAC units
- Began building on residence 8 carport
- Built 12 x 16 out building at residence 8
- Complete removal of old roofing down to the bare rafters and installed new sheeting, metal roofing and insulation on residences 1-7 for mold remediation
- New rain gutters installed at residences 1-7
- Installation of cross-over valve between primary and secondary chambers at Hydro-plant
- Installation of 10 inch valve to connect additional water to main incubation during Annual Pipeline Shut Down and Valve Exercise
- Design process for new adult holding ponds for summer Chinook at Clearwater Fish Hatchery
- Design process for new satellite facility at Meadow Creek
- Built fry tank for vat room ponding
- Built stand-alone crowders for Powell satellite adult ponds
- Built extension on Crooked River cabin roof to prevent water damage
- Built a structure over the intake at Crooked River.
- Built retaining wall, back filled with dirt and landscaped back yard at residence 8
- Installed new chain link fencing with two gates and mow strip around residence 8
- Made gravel parking access next to residence 8
- Installed gutters around administration building court yard
- Landscaped with new water sprinklers around administration building
- Built trophy fish display
- Designed and installed a floating dock for the sediment pond
- Installed new 300 gallon tank and knife valve in ¾ ton tanker truck
- Installed new Ballard around administration building

MAINTENANCE AND REPAIRS

- Relocated water and power lines in order to repurpose old HVAC space with new floors and repair of walls and new paint for a wash room
- Replaced HVAC units in residences 1-7 and administration building
- Replaced duct work in new office addition
- Painted office walls
- Repaired pump for show pond
- Repaired siding and paint on administration building
- Replaced fire alarm cable for administration building
- Replaced approximately 300 feet of 4 inch maintenance water line
- Painted steelhead bank raceways
- Began repairs to broken primary pipeline including new cable and swivel connection to the face of the dam
- Replaced room heater in Isolation Incubation
- Replaced hot water tank in Isolation Incubation
- Installed new chain link fence with gate and cement mow strip at residence 1 and 3

- Repaired floor in residence 3 laundry room: replaced sub floor, overlayment and floor insulation
- Repaired cook stove in residence 3
- Replaced yard stand pipe at residence 4
- Rebuilt back yard gate and sunshade structure at residence 7
- Repaired or replaced all window screens and door screens at residences 1-8
- Updated security lighting with metal halide type lighting
- Converted smolt truck fresh flows from 110 to 120 volts
- Welded cracks on smolt truck tanks for trucks 67 and 34
- Spring mounts installed on side dump adult truck
- Repaired skylight in administration building
- Replaced HVAC in break room with reused HVAC parts from housing HVAC project and replaced ducts for HVAC system
- Replaced water valve in men's bathroom
- Repaired steelhead bank raceway walls as needed prior to painting
- Cleaned and resealed all expansion joints for steelhead raceways prior to painting
- Mounted 1 ton tank on new 1 ton truck
- Refurbished and mounted tool boxes from old shop truck on new shop truck along with a new tail gate

NEW TOOLS AND EQUIPMENT PURCHASED

- New backhoe
- New HVAC units in seven residences and one in the office
- New Jensorter Egg Picker
- Airless paint sprayer

APPENDICES

Appendix A. Chinook Adult Returns to Clearwater Hatchery Satellite Facilities 2012

	Crooked River	Red River	Powell/Crooked Fork
Date of first return	06/14/2012	06/14/2012	06/14/2012
Date of last return	09/02/2012	09/03/2012	09/10/2012
Number of females returning	571*		499**
Number of males returning	444*		328**
Number of unknown sex returning	5*		2**
Date of peak returns	06/26/2012	06/26/2012	06/23/2012
Total trapped	97	923	829**
Number released to spawn naturally above weir	40	87	23
Released to spawn below weir	0	29	0
Trap Mortality	0	0	0
Sport Fishery Out plant	0	0	0
Fish transferred from other traps	0	0	0
Female Number Spawned	461*		414**
Pre-spawning mortality	65*		86**
Fish transferred to other hatcheries	0	0	0
Fish given to Kamiah Food Bank	25*		0

* In 1997, Red River and Crooked River Chinook were combined to make the South Fork stock.

**Includes fish trapped at Crooked Fork Weir.

Appendix B1. Spring Chinook Spawning Record 2012 for South Fork Clearwater Stock

SOUTH FORK (Red River / Crooked River).

Lot	Spawn Date	Total Females		BKD Females Culled		Other Females Culled		Females Kept	Green Eggs	Eyed Eggs	Percent Eye Up	Fecundity
		Table	Incubation	Table	Incubation	Table	Incubation					
1	8/7/2012	18	2	6	0	0	0	10	38,149	34,850	91.4	38,149
2	8/10/2012	24	0	5	0	0	0	19	71,859	69,970	97.4	71,859
3	8/14/2012	49	0	10	0	0	0	39	148,380	144,888	97.6	148,380
4	8/16/2012	45	2	14	0	0	0	29	108,840	107,074	98.4	108,840
5	8/20/2012	45	2	14	0	0	0	29	118,235	114,646	97.0	118,235
6	8/23/2012	83	0	19	0	0	0	64	234,517	228,461	97.4	234,517
7	8/27/2012	103	0	19	0	0	0	84	313,893	299,516	95.4	313,893
8	8/30/2012	75	0	5	0	0	0	70	241,326	223,412	92.6	241,326
9	9/4/2012	18	0	0	0	0	0	18	63,277	58,135	91.9	63,277
10	9/6/2012	1	0	0	0	0	0	1	3,138	2,962	94.4	3,138
Total/Average		461	6	92	0	0	0	363	1,341,614	1,283,914	95.7	1,341,614

Appendix B2. Spring Chinook Spawning Record 2012 for Powell Stock

POWELL

BKD Females Culled												Other Females Culled			
Lot	Spawn Date	Total Females	Table	Incubation	Table	Incubation	Females Kept	Green Eggs	Eyed Eggs	Percent Eye Up	Fecundity				
1	8/6/2012	60*	0	5	0	0	55	215,530	204,422	94.8	215,530				
2	8/9/2012	24*	0	0	0	0	24	100,031	96,506	96.5	100,031				
3	8/13/2012	91	0	8	0	2	81	314,121	300,352	95.6	314,121				
4	8/17/2012	41	0	2	0	0	39	143,884	126,081	87.6	143,884				
5	8/21/2012	43	0	4	0	0	39	152,555	128,115	84.0	152,555				
6	8/24/2012	30	0	1	0	0	29	119,588	111,810	93.5	119,588				
7	8/28/2012	7	0	1	0	0	6	25,732	23,668	92.0	25,732				
8	8/31/2012	6	0	0	0	0	6	22,236	17,022	76.6	22,236				
9	9/4/2012	7	0	1	0	0	6	25,122	17,781	70.8	25,122				
Total/Average		309*	0	22	0	2	285	1,118,799	1,025,757	91.7	1,118,799				

*Totals do not include 105 females transferred to Dworshak National Fish Hatchery as green eggs.

Appendix C. Chinook Rearing FY12

Rearing to fry stage only

BY11

Hatched from eyed eggs	NA
Percent hatched – eyed to fry	NA
Percent mortality to stocking	NA
Total number of fry stocked	NA
Total weight of fry stocked	NA
Average number/lb. of fry	NA
Conversion rate	NA

Rearing to Fingerling stage only (parr & pre-smolts)

BY11

Fingerlings produced	552,276
Weight of fingerlings produced	7,268
Percent mortality to stocking	1.85%
Average number/lb. of fingerlings	Parr 85.0
	Pre-smolt 65.0
Conversion rate	0.97

Smolts reared (BY10 all stocks combined)

Hatched from eyed eggs	2,523,194
Percent hatched – eyed to fry	98.7%
Percent mortality to stocking	4.4%
Number of smolts produced	2,387,106
Weight of smolts produced	144,046
Average number/lb. of smolts	16.70
Average Conversion rate	0.96

BY10 Chinook

Total number of trips at release:	81 @ 1,800 lbs per trip.
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*See Table G for details

Appendix D. Steelhead Rearing FY12

Rearing to fry stage only

	BY11
Hatched from eyed eggs	NA
Percent hatched – eyed to fry	NA
Percent mortality to stocking	NA
Total number of fry stocked	NA
Total weight of fry stocked	NA
Average number/lb. of fry	NA
Conversion rate	NA

Rearing to Fingerling stage only

	BY11
Fingerlings produced	NA
Weight of fingerlings produced	NA
Percent mortality to stocking	NA
Average number/lb. of fingerlings	NA
Conversion rate	NA

Smolts reared

Dworshak

	BY11
Hatched from eyed eggs	851,037
Percent hatched – eyed to fry	96.0
Percent mortality to stocking	14.9
Number of smolts produced	724,036
Weight of smolts produced	160,824
Average number/lb. of smolts	4.62
Average Conversion rate	0.78

BY10 Steelhead

Total number of trips at release: 77 @ 2,100 lbs per trip.

Appendix E Chinook & Steelhead Food/Weight Gain

CHINOOK

FOOD FED & WEIGHT GAINED

	BY10	BY11
Period Fed: 10.01.11-9.30.12		
Feed Used (lb.) (LSRCP)	58,880	64,497
Weight Gain (lb.)	86,884	56,996
Feed Purchased FY11	\$13,816	\$133,966
Conversion	.97	1.12

STEELHEAD

FOOD FED & WEIGHT GAINED

	North Fork BY11	BY12
Period Fed: 10.01.11-9.30.12		
Feed Used (lb.) (LSRCP)	98,152**	21,249
Weight Gain (lb.)	147,903	21,265
Feed Purchased FY11	\$87,494	\$108,726
Conversion	0.78	1.02

Fish reared on station for other projects.

Feed cost provided by surplus feed from CFH.

Species	Rainbow
Agency reared for	Idaho Fish & Game
Period fed	June – Sept 2012
Feed fed (lb.)	3,300
Weight gain (lb.)	3,300
Cost	\$5,148
Conversion	1.0

** Portion of feed purchased in FY11

Appendix F F129 BY11 Steelhead Distribution and Marking

Release BY11 Steelhead Full Term Smolts									
Date	Site	Production/ Supplementation	Number Released	Stock	Length (mm)	FPP	Pounds	Marks	Raceways
4/12/2012	Newsome Creek	Supplementation	118,053	Dworshak	217	4.59	25,907	118,053 no marks, 2,269 PIT, 100% PBT	7E, 7W
4/11/2012	Meadow Creek	Supplementation	118,181	SF Clearwater	217	4.65	25,415	117,304 CWT only, 877 NO MARKS, 3,998 PIT, 100% PBT	8W, 10W
4/11/2012	Meadow Creek	Production	59,435	SF Clearwater	204	5.4	11,006	59,435 AD, 632 PIT, 100% PBT	9W
4/9/2012	Meadow Creek	Supplementation	60,606	Dworshak	222	4.44	13,650	60,606 no marks, 100% PBT	12E
4/9-10/2012	Meadow Creek	Production	188,328	Dworshak	220	4.38	42,997	133,154 AD, 55,174 AD/CWT, 2,599 PIT 100% PBT	11E, 12W, 11W
4/10/2012	Red House Hole	Production	179,433	Dworshak	222	4.27	41,848	108,593 AD, 70,840 AD/CWT, 0 PIT 100% PBT	8E, 9E, 10E
Total			724,036		217	4.62	160,824		

Appendix G Spring Chinook BY10 Distribution and Marking

Release BY10 Chinook Full Term Smolts

Date	Site	Number Released	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Receways	Comments
3/21, 22, 2012	Lower Selway River	415,369	Powell/Spring Chinook	147	17.15	24,208	152,915 AD, 122,220 AD/CWT, 138,684 CWT, 1,540 No Marks, 4,995 PIT, 100% PBT	2E, 3E, 4E, 5E	
3/22/2012	Clear Creek	234,511	Kooskia/Spring Chinook	152	15.64	15,498	119,266 AD, 115,245 AD/CWT, 17,087 PIT, 100% PBT	4W-5W	
3/26/2012	Crooked River	206,317	McCall/Summer Chinook	145	17.45	11,827	204,601 CWT, 1,716 no marks 100% PBT	2W, 3W	
3/28, 4/2, 3, 4, 5/2012	Red River	1,122,939	SF Clearwater/Spring Chinook	158	16.58	67,981	1,002,863 AD, 120,076 AD/CWT, 17,045 PIT, 100% PBT	1A-8A, 1B-8B	
3/27-28/2012	Powell	407,970	Powell/Spring Chinook	149	16.66	24,532	290,002 AD, 117,968 AD/CWT, 17,121 PIT 100% PBT	1A-3A, 1B-3B	
	Total	2,387,106		150	16.70	144,046			

Release BY10 Chinook Parr

Date	Site	Number Released	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Receways	Comments
6/13, 16, 20/2011	Upper Selway	302,782	Powell/Spring	3.28	82	3,692	100% PBT no clip	1E	Transported by NPTH

Transfer BY10 Presmolt

Date	Site	Number Transferred	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Receways	Comments
9/15/2011	NPTH	195,413	Powell/Spring	88.90	50	3,808	129,540 CWT, 65,873 AD/CWT	1W	Transferred to NPTH

TOTALS 2,885,301 151,646

Appendix H Operation Cost 2012

Total Pounds Gain Reared on LSRCP budget	313,048 lbs
Total Feed Cost	\$343,999
Feed Cost per LB Gain (Feed only)	\$1.10

COST TO OPERATE ENTIRE PROJECT FOR 2011-2012

	Actual Spent	As of 9/30/2012 \$ encumbered
Personnel Cost	882,952	0
Operation Cost	537,688	0
Capital Outlay	7,578	0
Sub-Total	1,428,218	0
 Overhead	 255,147	 0
Feed Cost	343,999	
Grand Total	2,027,364	

Total pounds reared by LSRCP funded personnel	313,048 lbs
Cost per pound using entire budget w/o overhead	\$6.48/ lb

*A portion of this feed will be used in FY12

Appendix I CFH Property Information

Clearwater Hatchery

25 buildings
0 wells
1.8 miles of pipeline
17.5 acres

Red River

4 buildings
0 wells
300 yards of pipeline
3.25 acres (approximately)

Crooked River (lower)

2 buildings*
1 well
187 yards of pipeline
6 acres

Crooked River (upper)

1 building
0 wells, 1 spring box
167 yards of pipeline
6.27 acres

Powell

2 buildings
1 well, 1 spring box, 1 direct creek source.
1 pump station from White Sands Cr.
200 yards of pipeline
7.77 acres

Total acreage is 40.79

* Building added: 7/2008 Lower Crooked River Storage shed

Idaho Department of Fish and Game - Clearwater Fish Hatchery
Statement of Work Annual Report– FY2012

The LSRCP goals for the Clearwater Fish Hatchery are to return 12,000 adult (spring/summer) Chinook salmon and 14,000 adult steelhead above Lower Granite Dam. In addition to managing the Clearwater Hatchery the staff also oversees operations at (4) satellite facilities (Powell, Red River, Upper Crooked River, and Lower Crooked River) to achieve the LSRCP goals. Pertinent physical and biological data associated with all aspects of program operations will be collected. Program operations are detailed in the Clearwater River Annual Operating Plan (AOP).

OBJECTIVES:

Objective 1: Manage all operations and maintenance at the Clearwater Fish Hatchery, the Powell, the Red River, the Upper Crooked River, and the Lower Crooked River Satellite facilities, to achieve LSRCP goals. This also includes overseeing spending, all fish marking, fish transportation, and fish health activities associated with this program.

Objectives accomplished as detailed in 2012 Annual Operations Report.

Objective 2: Develop the facility annual operating budget; to be submitted to the LSRCP office by June 15. The proposed FY2012 operating budget is \$1,622,042 (excluding fish feed and utilities paid directly by LSRCP office). A separate maintenance and equipment needs list will be submitted with the annual operating budget. Major maintenance and improvement project will be coordinated with the LSRCP office.

Statement of Work and annual budget. Submitted to IDFG & LSRCP office in Boise, ID by due dates.

Objective 3: Develop an annual facility Statement of Work, to be submitted to the LSRCP office by June 15.

Statement of Work Submitted to IDFG & LSRCP office in Boise, ID by due date.

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Objective 4: Conduct annual safety inspections and submit findings to the LSRCP office by August 1 (checklist to be provided by LSRCP).

Annual inspection conducted by Idaho State Building and Safety inspector Gary Brodner, 7.19.12

Annual inspection conducted by USF&WS safety inspector Allen Williams, June 27 through 29, 2012.

Objective 5: Conduct annual facility condition assessments and submit findings to the LSRCP office by August 1 (checklist to be provided by LSRCP).

Annual inspection conducted by USF&WS condition inspector Kim Hubbard, June 20 & 21, 2012.

Objective 6: Conduct annual real property and personal property inventories; coordinated with LSRCP personnel.

Annual IDFG and F&WS inventories were conducted by CFH staff.

Objective 7: Contribute to the development of the Clearwater AOP.

Objectives accomplished by attending all three Clearwater basin AOP meetings and contributing to develop of AOP document.

Objective 8: Provide monthly inventory data to the LSRCP office by the 7th of each month.

Objectives accomplished.

Objective 9: Provide a written facility annual report to the LSRCP office, including the standardized LSRCP production tables (to be provided) to the LSRCP office by December 31. A progress summary of all ongoing hatchery research projects will be included in this report. (Other information needs for this report, to be determined).

Annual Operations Report submitted to IDFG Fisheries Bureau 11.14.2012.

Production objectives accomplished as listed in 2012 Annual Operation Report.

Spring / Summer Chinook Salmon (Clearwater Stock):

Adult Return Goal:	12,000
Parr Release Target:	300,000
Pre-Smolt Release Target:	200,000
Smolt Release Target:	2.33 mil.
Egg Collection Target:	4,102,000
Broodstock Target:	2,090 pairs

Steelhead (Clearwater Stock):

Adult Return Goal :	14,000
Smolt Release Target:	843,000
Egg Collection Target:	904,500
Broodstock Target:	270 pairs